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Dec 26, 2000

DERWENT-ACC-NO: 2001-275809

DERWENT-WEEK: 200129

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TITLE: New signal peptides useful for the preparation of human growth hormone and transformed chlorella

INVENTOR: NAKAMURA M ; RICHARD H

PATENT-ASSIGNEE:

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CODE

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PRIORITY-DATA: 1999JP-168271 (June 15, 1999)

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PATENT-FAMILY:

PUB-NO

PUB-DATE

LANGUAGE

☐[JP 2000354490 A](#)December 26,
2000

JA

APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
JP2000354490A	June 15, 1999	1999JP-168271	

INT-CL-CURRENT:

TYPE IPC	DATE
CIPS <u>C07</u> <u>K</u> <u>14/61</u>	20060101
CIPS <u>C12</u> <u>N</u> <u>1/13</u>	20060101
CIPP <u>C12</u> <u>N</u> <u>15/09</u>	20060101
CIPS <u>C12</u> <u>P</u> <u>21/02</u>	20060101

ABSTRACTED-PUB-NO: JP 2000354490 A
BASIC-ABSTRACT:

NOVELTY - Signal peptides for expression and secretion of a protein in chlorella are new.

DESCRIPTION - Peptide sequences of formula Met-Ala-Asn-Lys-X1-(Leu)_n-X2-Ala-Ser-Gly (I).

X1 = Ser or Leu;

n = an integer of 5-15;

X2 = Gly-Ser-Leu or Pro-Leu-Ala.

INDEPENDENT CLAIM is also included for:

(1) one of two polypeptides of 16 nucleotides described in the specification;

(2) DNA encoding the polypeptide of (1); and

(3) a recombinant vector containing the DNA of (2);

USE - Preparation of human growth hormone and transformed chlorella.

ADVANTAGE - Signal peptides, DNA encoding for the peptides, gene expression cassettes, recombinant vectors having the cassettes, and

transformants having the vectors are provided.

ABSTRACTED-PUB-NO: JP 2000354490 A
EQUIVALENT-ABSTRACTS:

BIOTECHNOLOGY

Preferred DNA: The DNA may optionally further bound to a promoter, particularly cauliflower mosaic virus 35S promoter and/or ribulose diphosphate carboxylase S2 promoter, to give a gene expression cassette.

The following examples were carried out: (1) construction of expression cassette by 1) synthesis of DNA, 2) preparation of the promoter, and aimed expression gene, 3) construction of the expression vector, 4) preparation of the transformant by preparation of host *Chlorella sorokiniana* ATCC 22517 or *Chlorella vulgaris* C-27 and introduction of an expression recombinant vector and 5) expression of the protein.

TITLE-TERMS: NEW SIGNAL USEFUL PREPARATION HUMAN GROWTH HORMONE
TRANSFORM CHLORELLA

DERWENT-CLASS: B04 D16

CPI-CODES: B04-C01; B04-E03F; B04-E08; D05-H12A; D05-H12E; D05-H16B; D05-H17;

CHEMICAL-CODES:

Chemical Indexing M1 *01*

Fragmentation Code
M423 M710 N135 Q233
Specific Compounds
RA00NS
Registry Numbers
93605

Chemical Indexing M1 *02*

Fragmentation Code
M423 M710 N135 Q233
Specific Compounds
RA012P
Registry Numbers
105730

Chemical Indexing M1 *03*

Fragmentation Code

F011 F012 F423 H1 H101 H182 H211 H4 H401 H402
H403 H481 H482 H483 H5 H598 H8 H9 J0 J014
J1 J171 J3 J311 J373 M210 M211 M271 M281 M311
M312 M313 M315 M321 M322 M323 M331 M332 M333 M340
M342 M343 M349 M381 M393 M423 M510 M521 M530 M540
M620 M710 N135 Q233

Markush Compounds

003829801

SECONDARY-ACC-NO:

CPI Secondary Accession Numbers: 2001-083983

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